

Names: _____

Date: _____

Block: _____

Scientific Method

Magic Milk!

Before we start the experiment...

1. Identify the Problem

What do we want to know? Why are we doing this experiment?

2. Make Predictions & Form a Hypothesis

a) What do you think will happen when you add the food colouring to the milk? (ie: will it stay on top? Sink to the bottom? Mix together?)

b) What do you think will happen to the food colouring when you add the dish soap to the food colouring + milk mixture? (ie: will it stay in the same place? Sink to the bottom? Move around? Mix together?)

c) Write out your hypothesis in statement form.

***Remember:

- **hypothesis** - the concept to be investigated; it is an inference or prediction that can be tested (usually by **Experimentation**. It gives direction to scientific investigation.
- A **hypothesis** is a **tentative** statement that proposes a possible **explanation** to some phenomenon or event.

Ex: IF we add dish soap to the food colouring and milk mixture THEN the food colouring will stay in the same place and not move at all.

Names: _____

Date: _____

Block: _____

3. Identify your independent and dependent variables

***Remember:

- **independent** variable – the variable being manipulated or changed
- **dependent** variable – the observed **result** of the independent
variable being manipulated

a) Our independent variable will be:

b) Our dependent variable will be:
